

Amendments To The Claims:

1-31 (Canceled).

32. (Previously Presented) A stent delivery catheter comprising:

an inner shaft, the inner shaft having a proximal portion and a distal portion,
an inflatable medical balloon positioned about the distal portion of the inner shaft, the medical balloon having an expanded state, a contracted state, a proximal end and a distal end, wherein the medical balloon can be expanded from its contracted state to its expanded state, and
at least one mounting body secured to the inner shaft, inside the medical balloon, the mounting body having a length and having at least one separation.

33. (Previously Presented) The stent delivery catheter of claim 32, wherein the mounting body has a plurality of separations.

34. (Previously Presented) The stent delivery catheter of claim 33, wherein the plurality of separations are substantially parallel and substantially circumferentially positioned around the mounting body.

35. (Previously Presented) The stent delivery catheter of claim 32, wherein the separation is substantially along the entire length of the mounting body.

36. (Previously Presented) The stent delivery catheter of claim 32, wherein the separation is in the form of a spiral.

37. (Previously Presented) The stent delivery catheter of claim 36, wherein the separation is substantially along the entire length of the mounting body.

38. (Previously Presented) The stent delivery catheter of claim 32, wherein there are at least two mounting bodies axially spaced along the inner shaft.

39. (Previously Presented) The stent delivery catheter of claim 32, wherein there are at least three mounting bodies axially spaced along the inner shaft.

40. (Previously Presented) The stent delivery catheter of claim 32, wherein the mounting body is ring-like and have an outer surface which has a substantially constant radius.

41. (Previously Presented) The stent delivery catheter of claim 32, wherein the mounting body is of a material which resiliently deforms under radial pressure.

42. (Previously Presented) The stent delivery catheter of claim 41, wherein the material is

elastomeric.

43. (Previously Presented) The stent delivery catheter of claim 41, wherein the material comprises high density polyethylene.

44. (Previously Presented) The stent delivery catheter of claim 41, wherein the material comprises silicone.

45. (Previously Presented) The stent delivery catheter of claim 32, further comprising a stent crimped onto the medical balloon.

46. (Previously Presented) The stent delivery catheter of claim 45, wherein the stent has two opposite ends, the stent delivery catheter further including a pair of stops, each of which is respectively positioned at the opposite ends of the stent and carried by the inner shaft inside the inflatable means.

47. (Previously Presented) The stent delivery catheter of claim 45, further including marker bands positioned proximally and distally of the stent.

48. (Previously Presented) The stent delivery catheter of claim 32, further comprising a first sleeve at the distal end of the catheter having a first end gripped to the catheter and a second end overlying a first end portion of the stent, the sleeve releasing the stent upon expansion of the expandable inflation means.

49. (Previously Presented) The stent delivery catheter of claim 48, further comprising a second sleeve at the distal end of the catheter, having a first end gripped to the catheter and a second end overlying a second end portion of the stent, the sleeves releasing the stent upon expansion of the expandable inflation means.

50. (Previously Presented) The stent delivery catheter of claim 45, wherein the mounting body is substantially the same length as the stent.

51. (Previously Presented) The stent delivery catheter of claim 32, the mounting body having an outer diameter, wherein the outer diameter of the mounting body is substantially constant along its length.

52. (Previously Presented) The stent delivery catheter of claim 32, further comprising a tubular medical device, the tubular medical device being about the medical balloon and at least a portion of the mounting body and having an expanded state and a contracted state.